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Tre. Comp sen 'Y NID-2012

10 : 2nd half.12-shilpa(e)

(b) Write note on : SONET.

Con. 9854-12. KR-5231 (3 Hours) [Total Marks: 100 N.B.: (1) Question No. 1 is compulsory. (2) Attempt any four questions out of remaining six questions. (3) Assume suitable data wherever required. 1. (a) Explain the following with example :-10 (i) Repeater (ii) Hubs (iii) Bridges (iv) Switches (v) Router. (b) Explain the layers details of OSI and TCP/IP Models. 10 2. (a) Explain the major componets of telephone networks. 10 (b) Explain the error detection and error correction algorithms. 10 (a) What is CRC? Write the algorithm for computing checksum and explain with 10 suitable example. 10 (b) Explain the following with examples:-MAC address, IP address, Socket, Baud rate, Latency. 4. (a) Differentiate between the following :-10 (i) Protocol and Interface (ii) Connectionless and connection oriented service. (b) Explain and compare the following:-10 Ethernet, Token Bus and Token Ring. 10 5. (a) Explain CSMA/CD. (b) List the features of bluetooth and explain the network formation process. 10 10 6. (a) Explain: FDMA, TDMA and CDMA. 10 (b) What are different types of routing? Explain Distance vector routing. 7. (a) What are the congestion prevention policies? Explain the congestion control 10 in virtual circuit and datagram subnets.